

FIG. 1
PRIOR ART

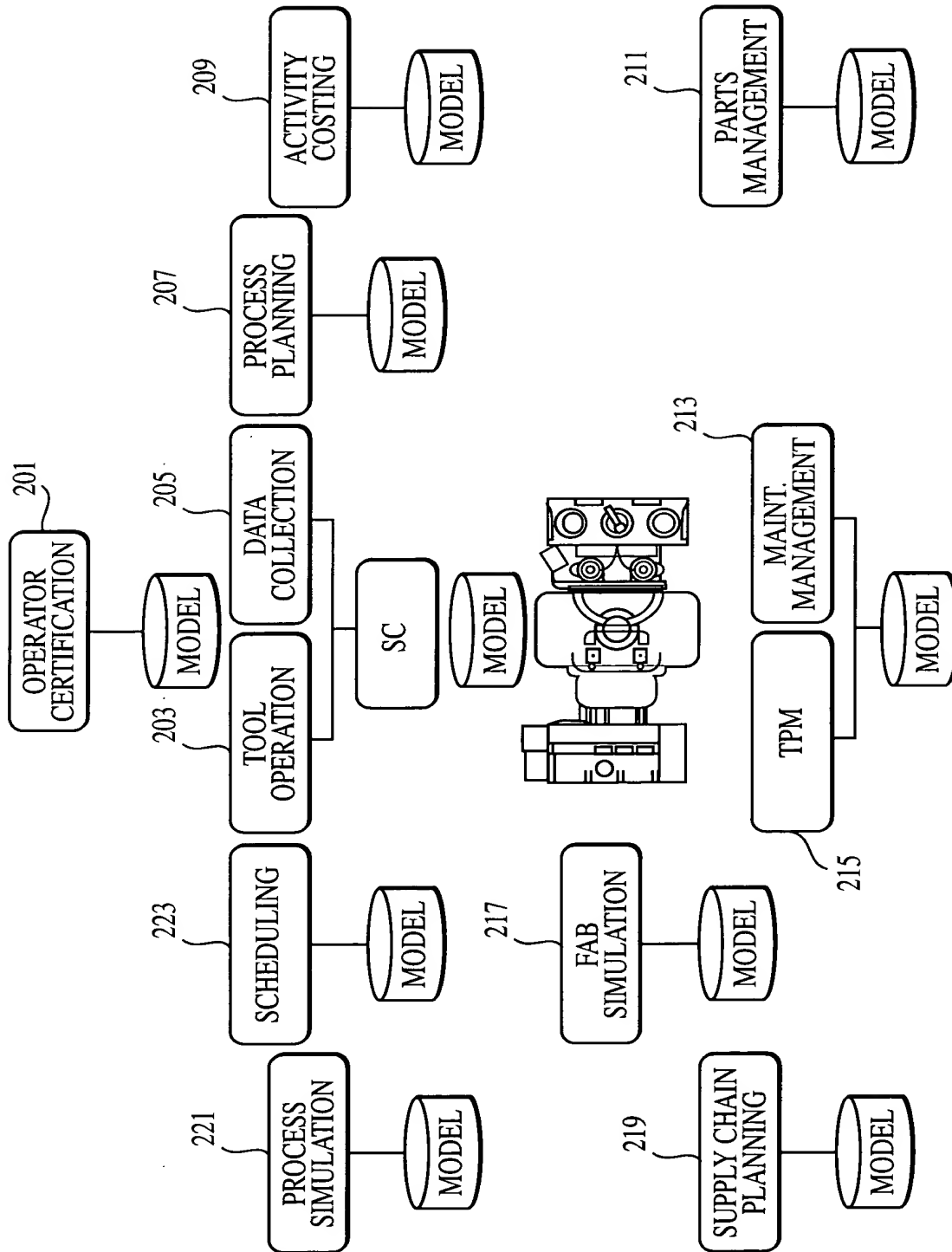


FIG. 2
PRIOR ART

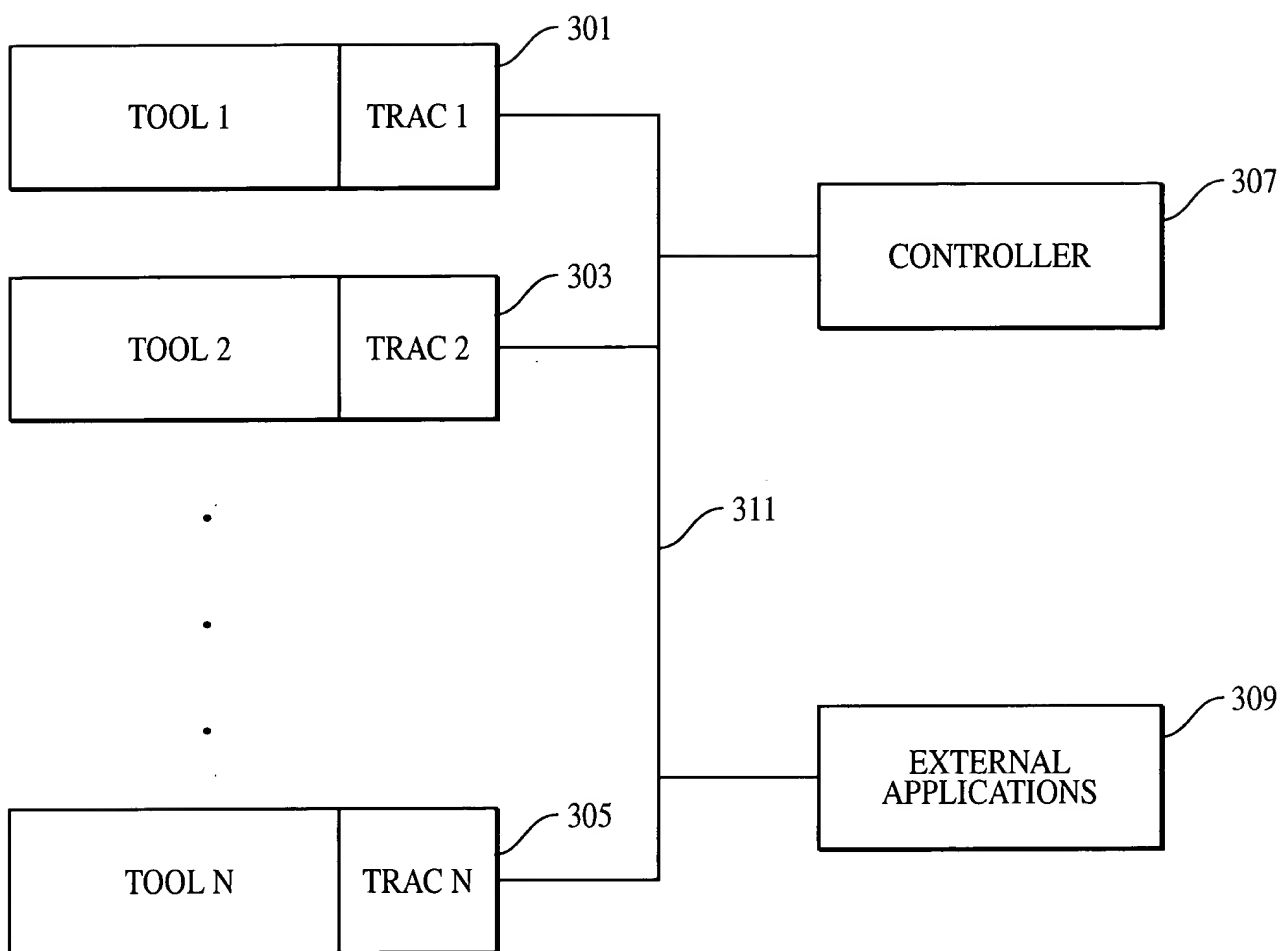


FIG. 3

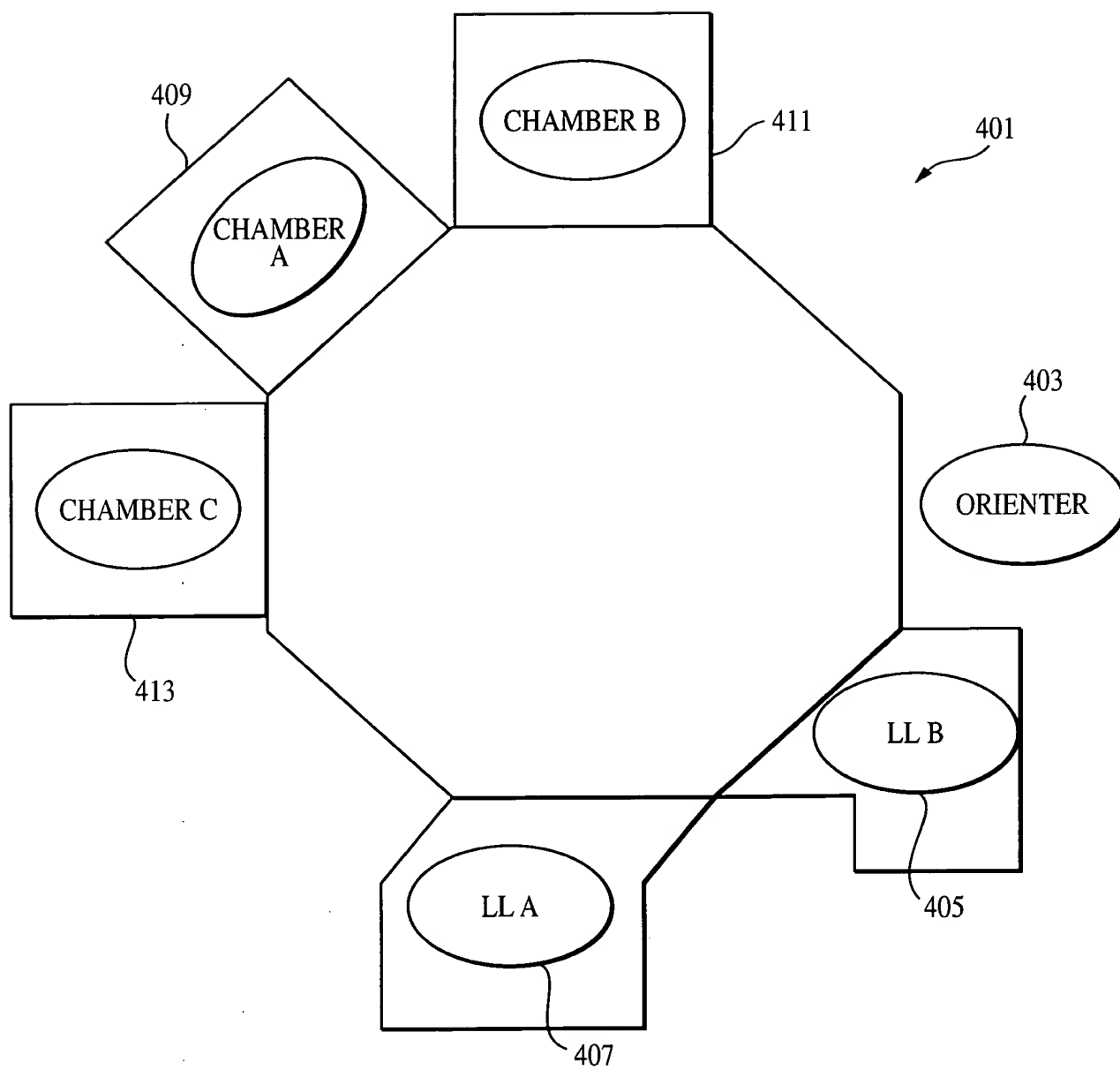


FIG. 4

501

		CHAMBER A CHAMBER C			
		TOOL	CHAMBER B		
507	STATE				
	BASIC	✓	✓	✓	✓
509	TOOL SERVICE				
	PRODUCTION	✓			
	MATERIAL HANDLING	✓			
511	QUALS				
	PARTICLES	✓	✓	✓	✓
	MANUFACTURING DEP		✓	✓	✓
	ENGINEERING DEP		✓	✓	✓
	PROCESS SERVICES				
503	T PROCESS X	✓			
	T PROCESS Y	✓			
	T PROCESS Z	✓			
505	C PROCESS A		✓	✓	
	C PROCESS B		✓	✓	
	C PROCESS C				✓

FIG. 5

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601

CHAMBER A CHAMBER C
TOOL CHAMBER B

		TOOL	CHAMBER B	CHAMBER A	CHAMBER C
QoS - CpK					
PROCESS SERVICES					
	PROCESS X				
	PROCESS Y				
	PROCESS Z				
	PROCESS A		2.1	2.16	
	PROCESS B		3.03	3.21	
	PROCESS C				4.16

FIG. 6


701

CHAMBER A CHAMBER C
TOOL CHAMBER B

		TOOL	CHAMBER B	CHAMBER A	CHAMBER C
QoS - PROC. TIME					
PROCESS SERVICES					
	PROCESS X				
	PROCESS Y				
	PROCESS Z				
	PROCESS A		42	43	
	PROCESS B		36	41	
	PROCESS C				130

FIG. 7

801



QoS - CpK		TOOL 1	TOOL 2	TOOL 3	TOOL 4
PROCESS SERVICES					
	PROCESS X	2.35	2.1	2.16	×
	PROCESS Y	3.41	3.03	3.21	×
	PROCESS Z	×	4.19	4.21	4.16

FIG. 8

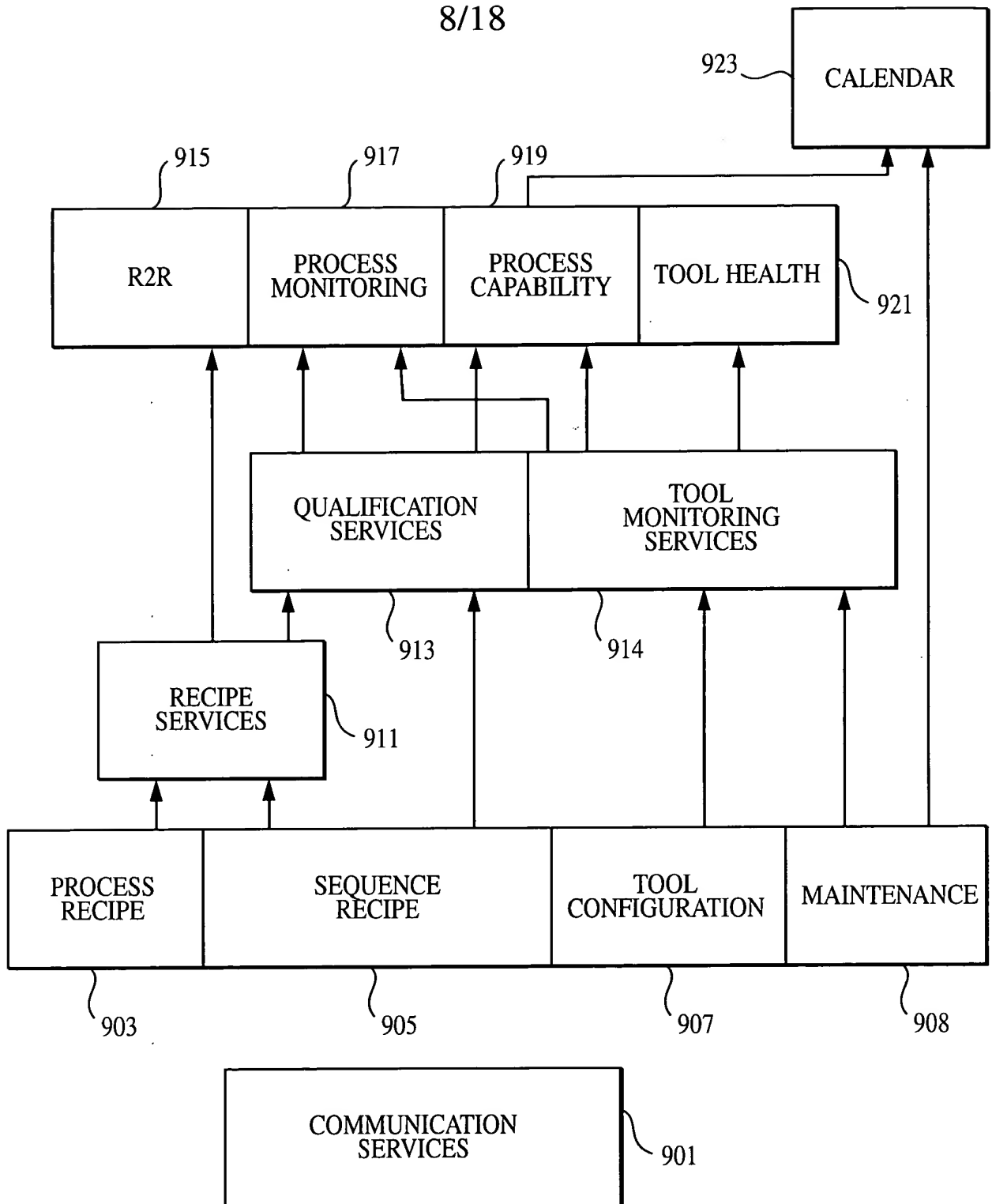


FIG. 9

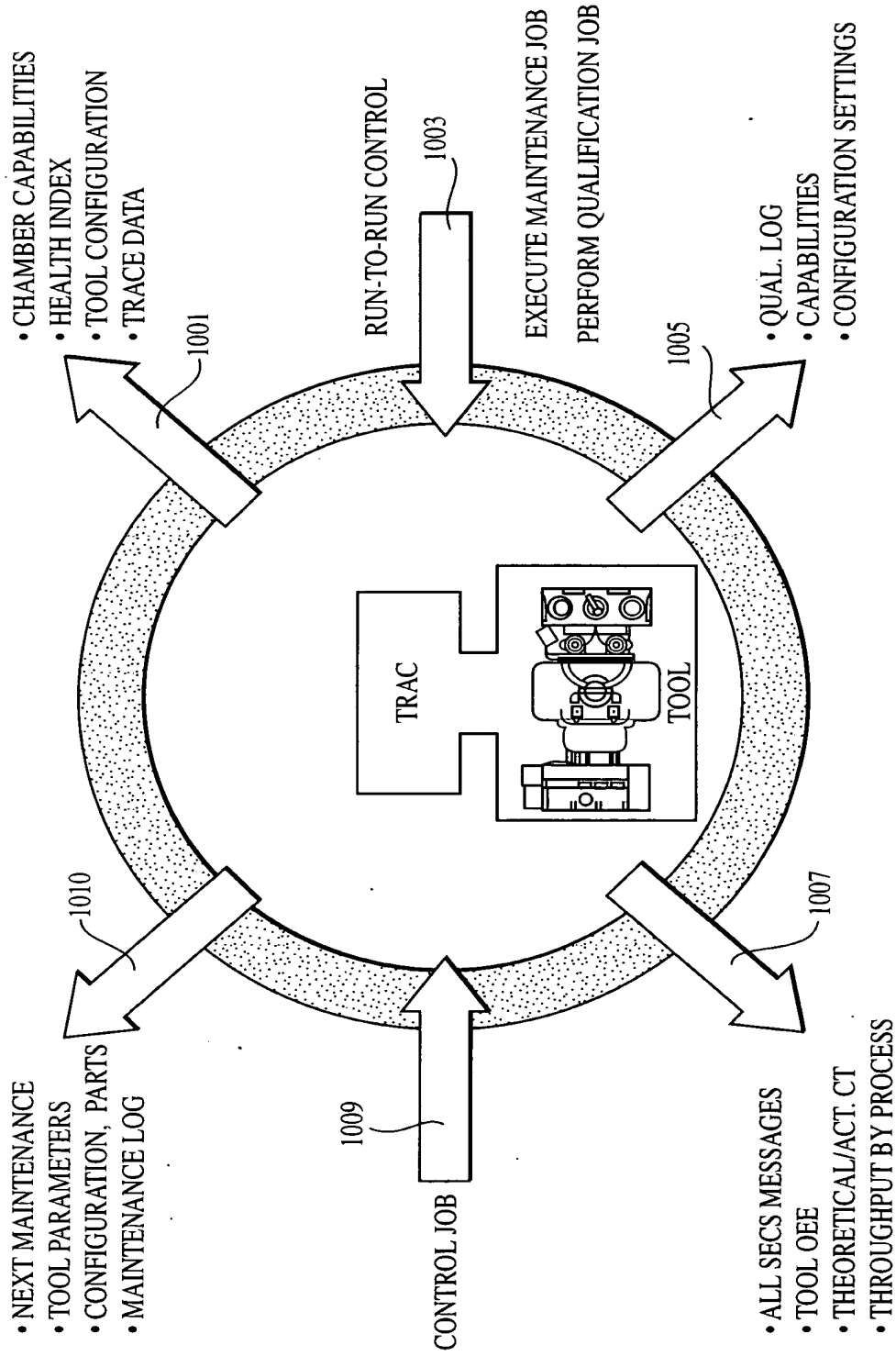


FIG. 10

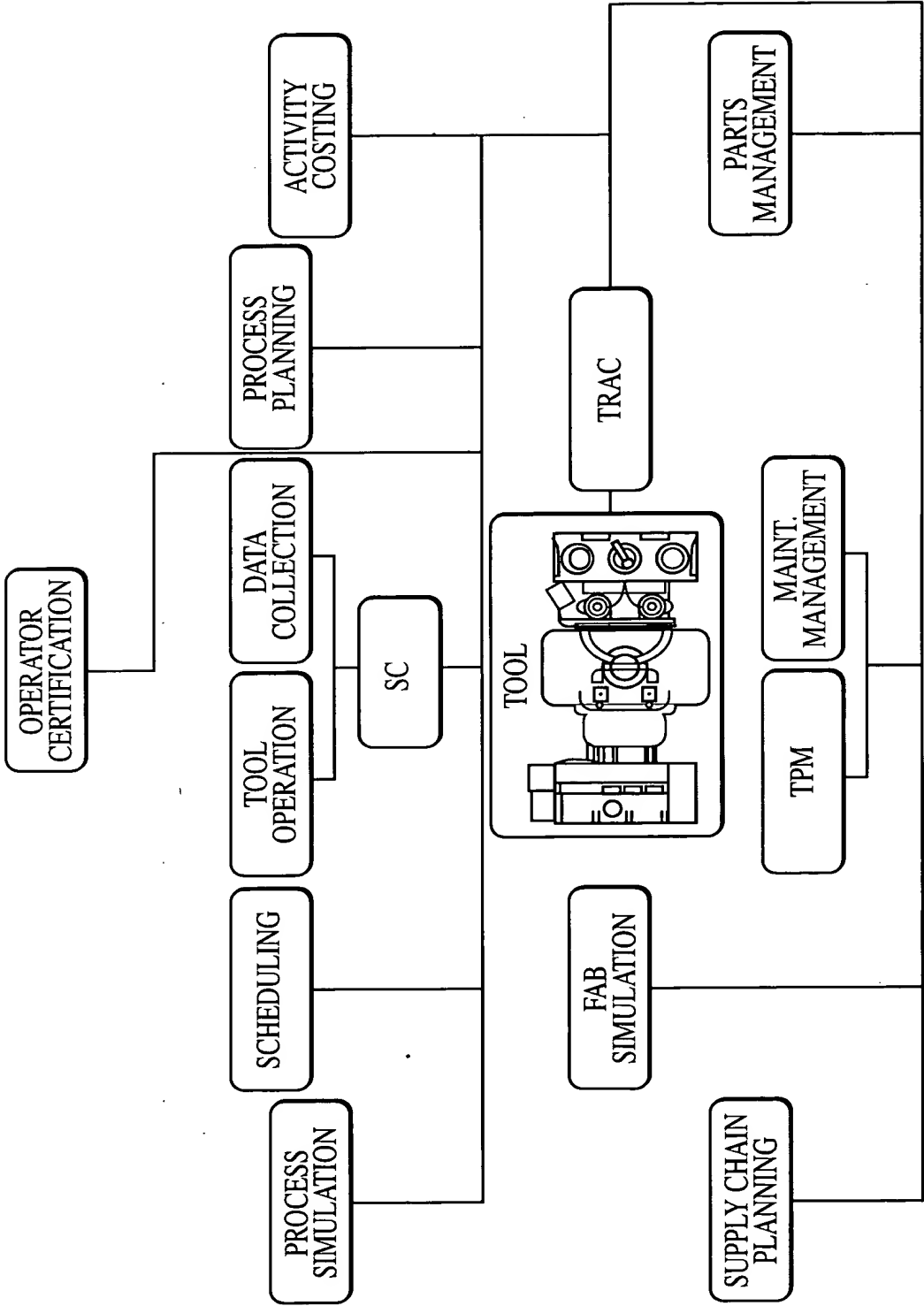


FIG. 11

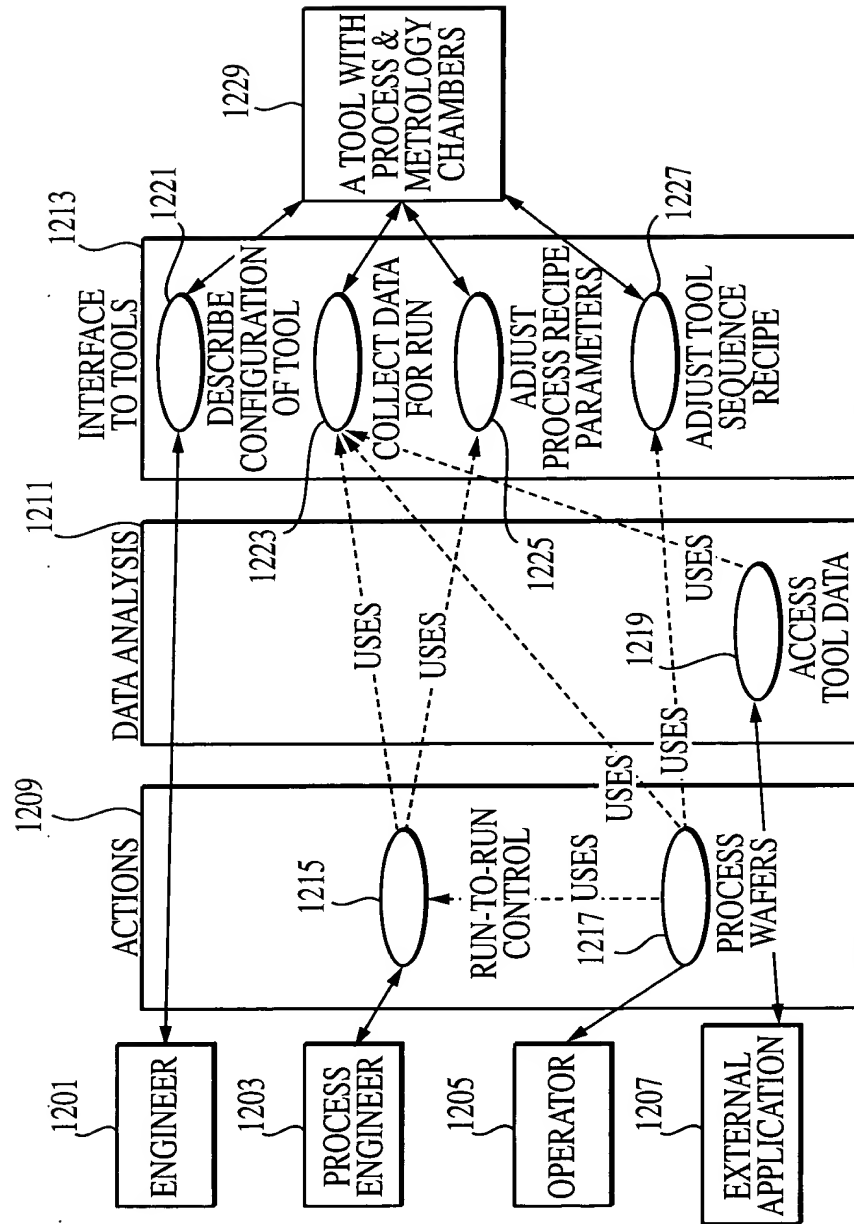


FIG. 12

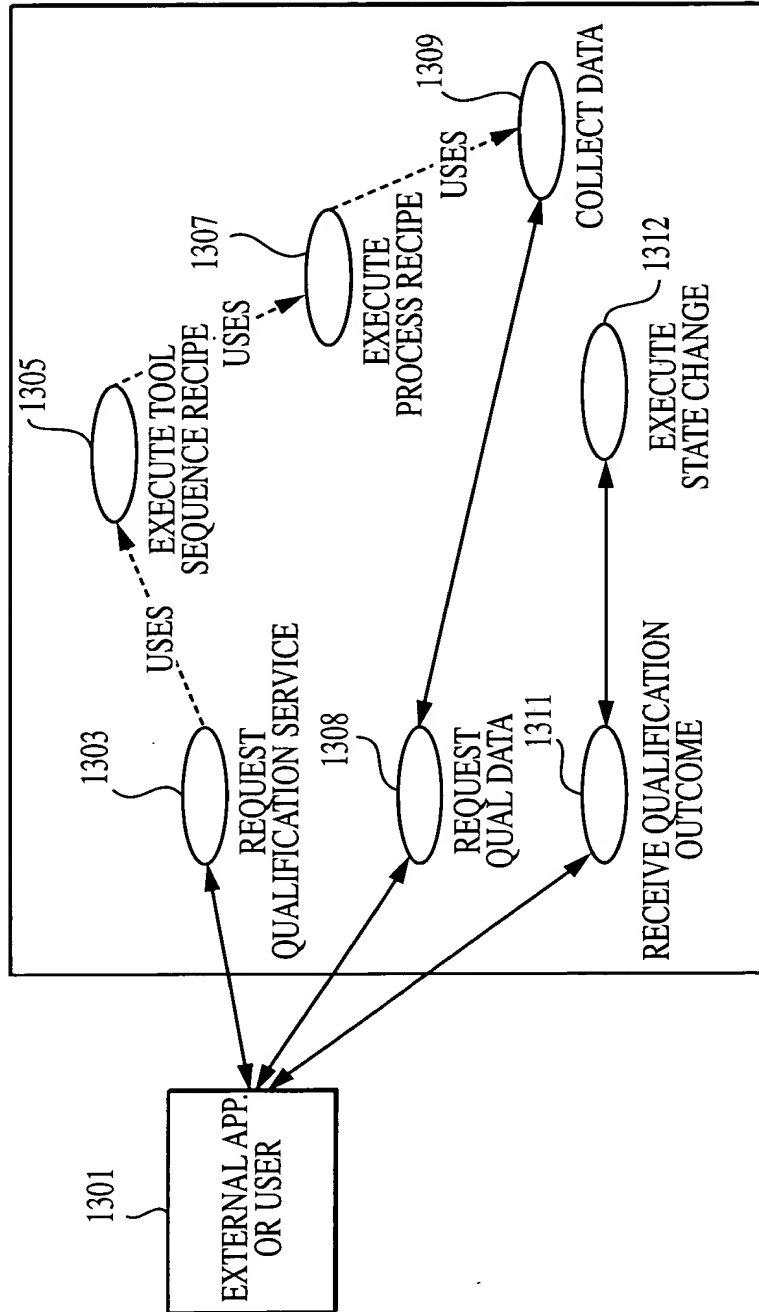


FIG. 13

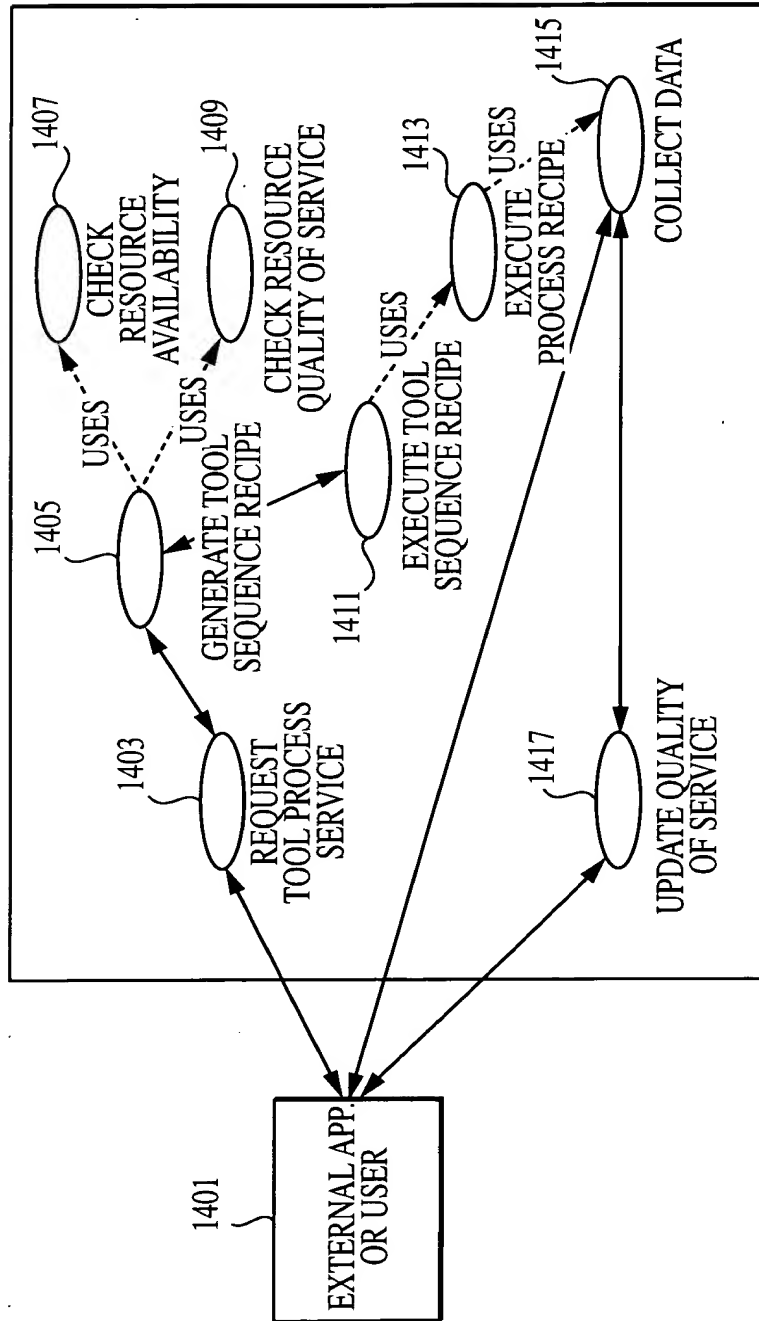


FIG. 14

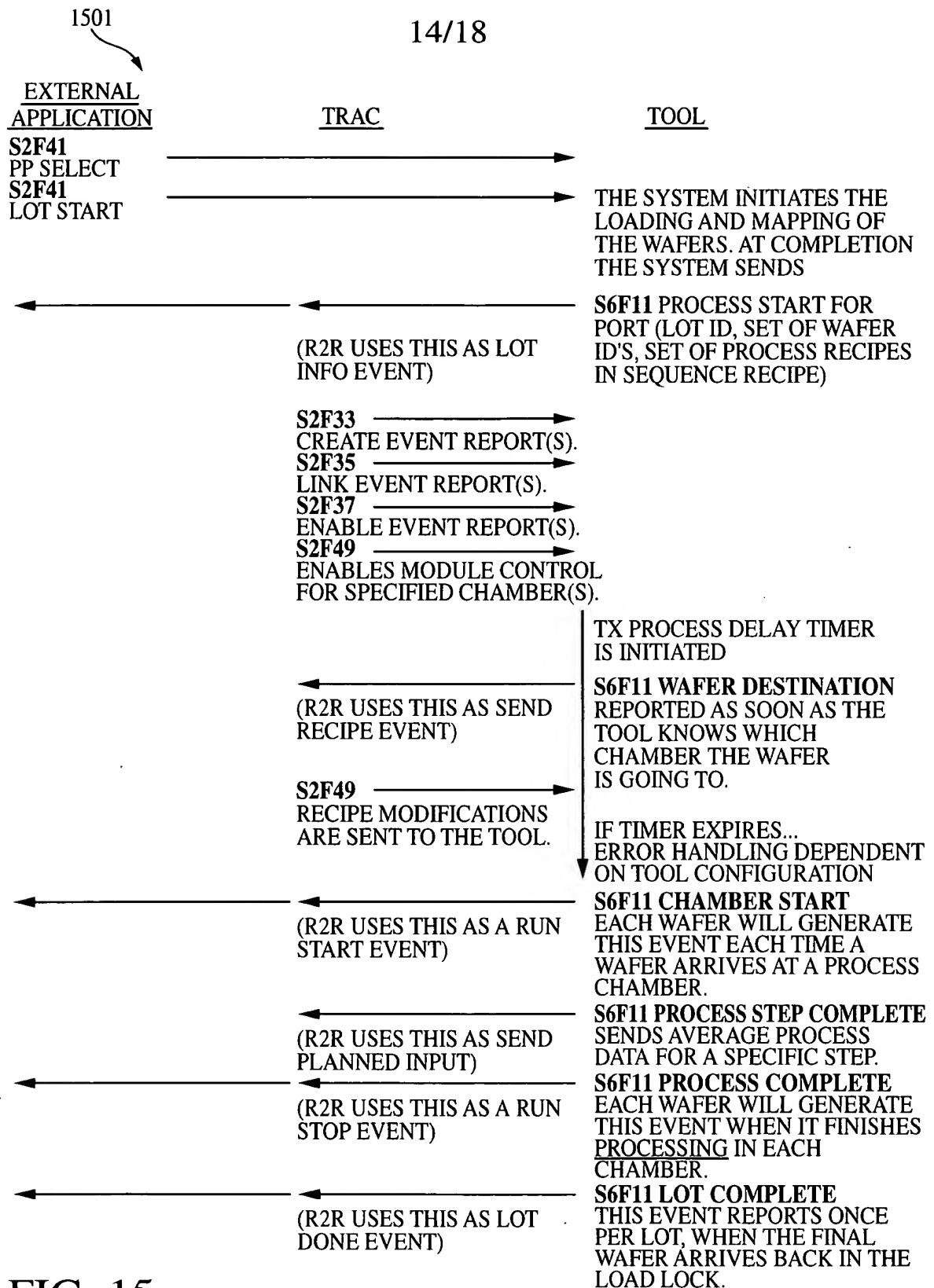


FIG. 15

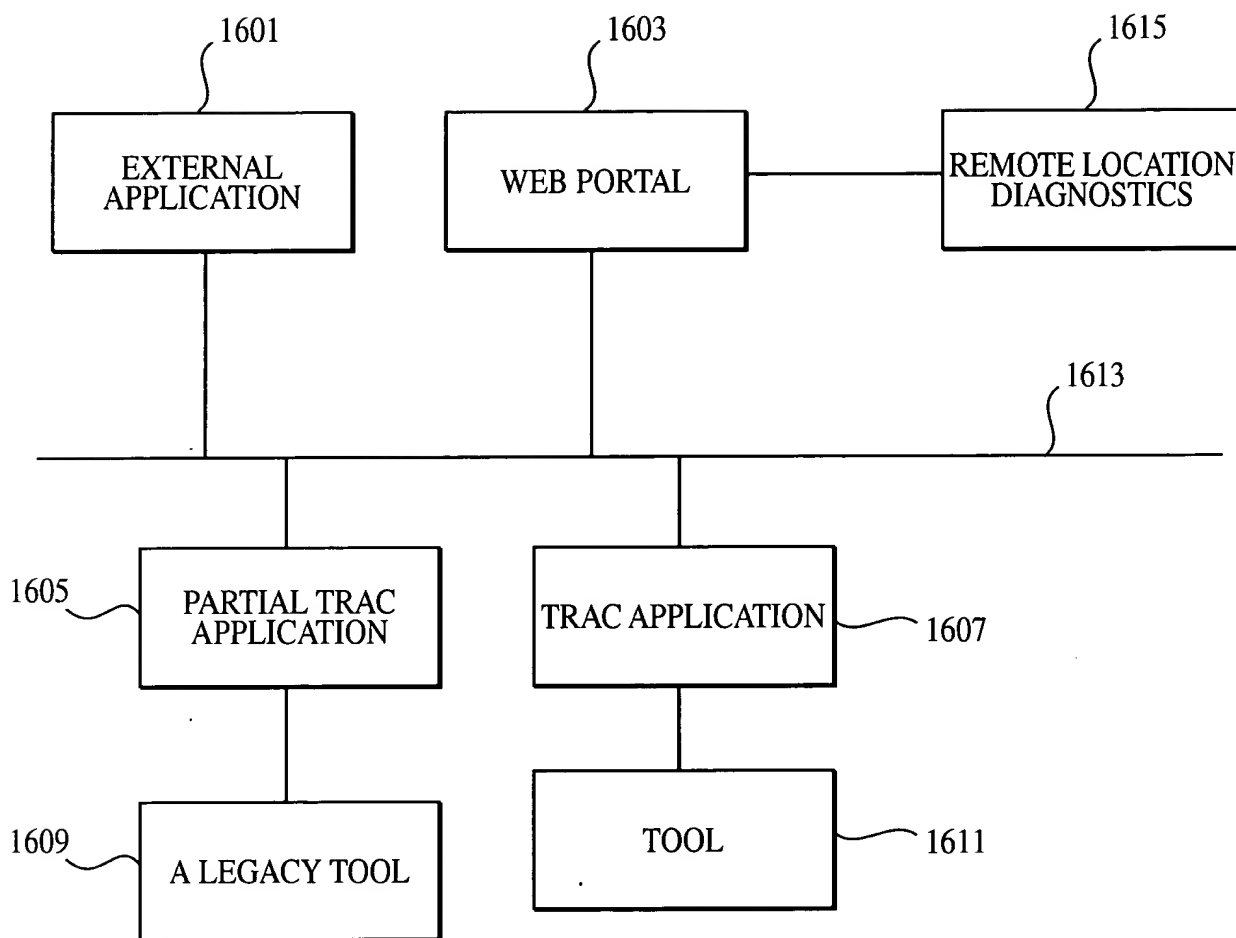


FIG. 16a

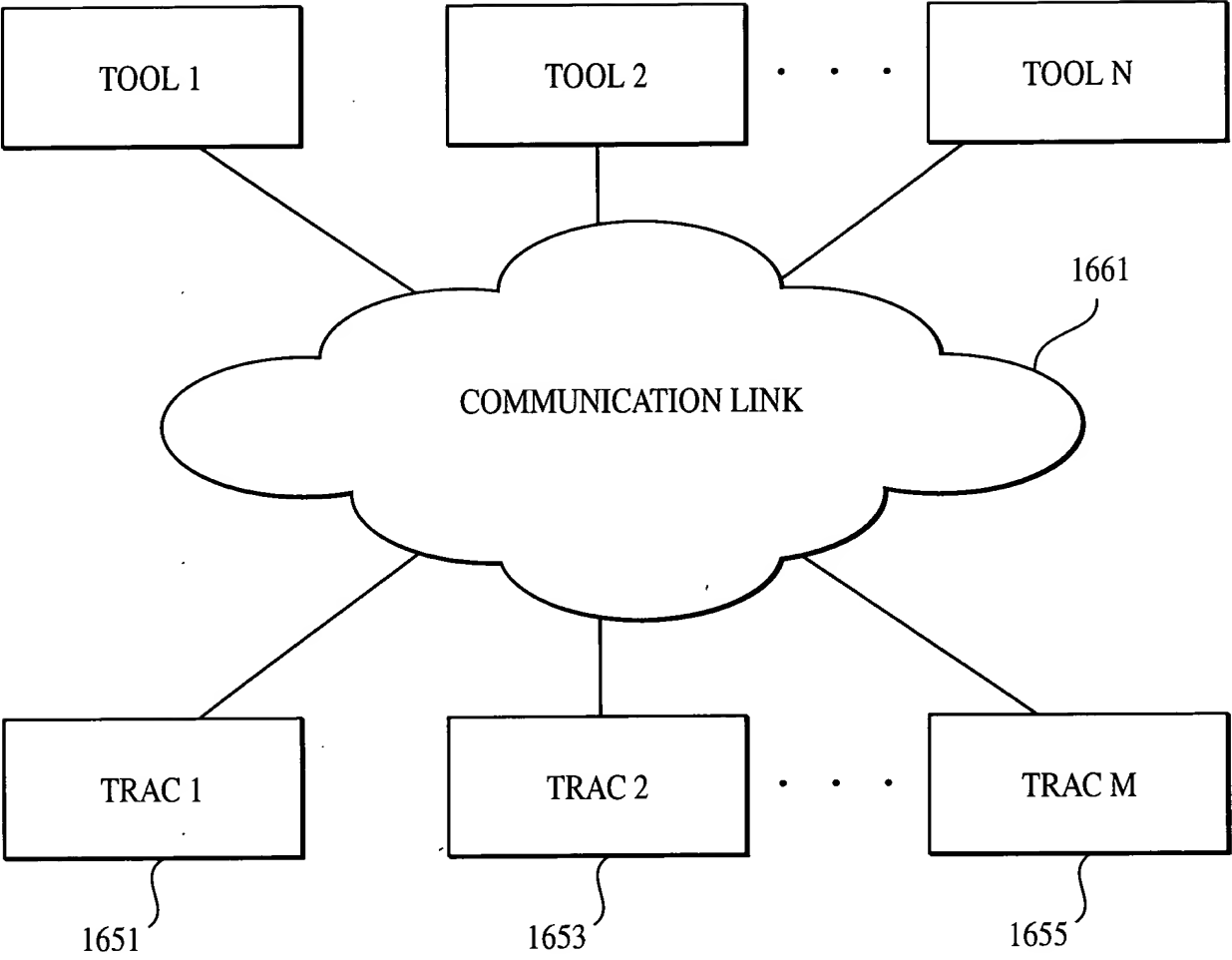


FIG. 16b

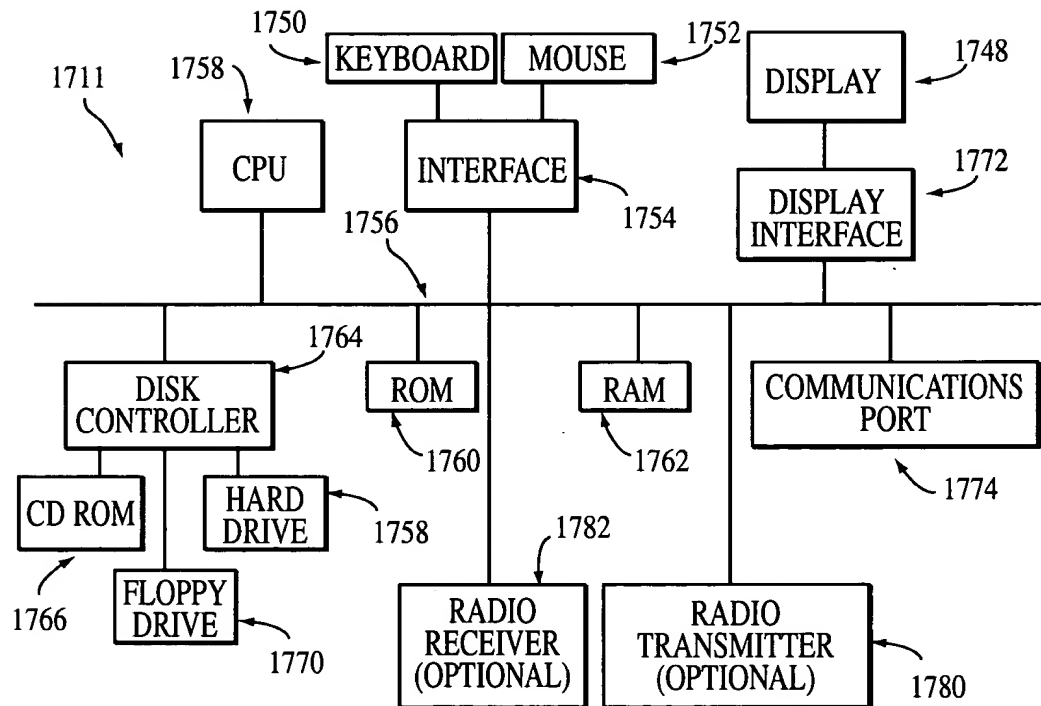


FIG. 17

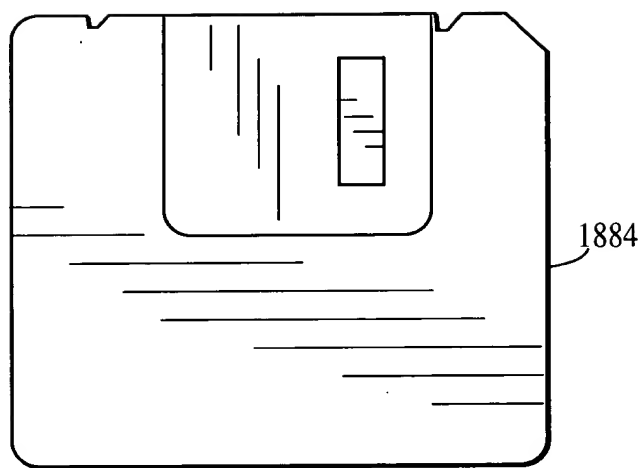


FIG. 18